FORM PTO -1619A

Expires 06/30/99 OMB 0651-0027

02-10-2004



U.S. Department of Commerce Patent and Trademark Office

PATENT

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Name (line 1) James E. Cannella, Jr.	cif additional names of conveying parties attached	Execution Date Month Day Year 01/29/2004					
Name (line 2) Second Party Name (line 1) Larry S. McKinney Name (line 2)	10768355	Execution Date Month Day Year 01/29/2004					
Receiving Party(ies)	Mark if additional names of receiving	y parties attached					
Name (line 1) Scientific-Atlanta, Inc. Name (line 2) a Corporation in Georgia Address (line 1) 5030 Sugarloaf Parkway Address (line 2) MS 4.3.510 Address (line 3) Lawrenceville City	GA 30044 State/Country Zip Code	If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)					
Domestic Representative Name and Address							
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Docket No. A-7955

REEL: 014954 FRAME: 0790

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U.S. Department of Commerce Patent and Trademark Office PATENT

Correspondent Name and Address Area Code and Telephone Number (770)236-235

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Name SHELLEY L. COUTURIER					
Address (line 1) Scientific-Atlanta, Inc.					
Address (line 2) Intellectual Property Dept./M	AS 4.3.510				
Address (line 3) 5030Sugarloaf Parkway					
Address (line 4) Lawrenceville, GA 30044					
Pages Enter the total number of page	ges of the attacl	ned conveyance doc	cument 3		
including any attachments.	(-)				
Application Number(s) or Patent Numl	` .		k if additional nur		
Enter either the Patent Application Number or the	Patent Number (DC	NOT ENTER BOTH nun	nbers for same p	property).	
Patent Application Number(s)		Patent Number(s)			
If this document is being filed together with a <u>new Pass</u> was signed by the first named executing inventor.	atent Application, e	nter the date the patent a	application	Month Day Year 01/29/2004	
Patent Cooperation Treaty (PCT)					
Enter PCT application number	PCT	PCT		PCT	
only if a U.S. Application Number has not been assigned.	PCT	РСТ		PCT	
	Number of	Properties	· · · · · · · · · · · · · · · · · · ·		
Enter the total	I number of Prop	erties Involved.	#1		
	Fee Ar	nount			
Fee Amount fo	r Properties Liste	ed (37 CFR 3.41):	\$40.00		
Method of Payment: Enclose	ed Depos	it Account 🛚			
Deposit Account (Enter for payment by deposit account or if a	ndditional fees can l Deposit Accou		nt.) #19-07(61	
	Authorization t	o charge additional fe	es: Yes	⊠ No □	
	Statement an	d Signature			
To the best of my knowledge and belief attached copy is a true copy of the origindicated herein					
SHELLEY L. COUTURIER	X QU	Muse	JA	NUARY 30, 2004	
Name of Person Signing	Signa	turo		Date	

Docket No. A-7955

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RECORDATION FORM COVER SHEET CONTINUATION PATENTS ONLY

U.S. Department of Commerce Patent and Trademark Office PATENT

Conveying Party(ies)	Mark if additional nam	nes of conveying parties attached	Execution Date Month Day Year		
Name (line 1) William D. Woodward, Jr.			01/29/2004		
Name (line 2)			Execution Date Month Day Year		
Name (line 1)					
Name (line 2)			Execution Date		
Name (line 1)			Month Day Year		
Name (line 2)					
Receiving Party	Mark	if additional names of receiving p			
Name (line 1)			If document to be recorded is an assignment and the		
Name (line 2)			receiving party is not domiciled in the United		
Address (line 1)			States, an appointment of a domestic		
Address (line 2)			representative is attached. (Designation must be a		
Address (line 3)	State/Country	Zip Code	separate document from Assignment.)		
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Name (line 1)			is an assignment and the		
Name (line 2)			receiving party is not domiciled in the United States, an appointment		
Address (line 1)			of a domestic representative is attached.		
Address (line 2)			(Designation must be a separate document from		
Address (line 3)			Assignment.)		
City	State/Country	Zip Code			
			Was all more than a Markey		
Application Number(s) or Patent Number(s) Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for same property).					
Patent Application Nu	mber(s)	Patent	Number(s)		
		ratent	radifiber(s)		

Docket No. A-7955

ASSIGNMENT AND AGREEMENT

For and in consideration of the sum of One Dollar to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, JAMES E. CANNELLA, JR., LARRY S. MCKINNEY, AND WILLIAM D. WOODWARD, JR., have sold, assigned and transferred, and do hereby sell, assign and transfer, unto Scientific-Atlanta, Inc., a corporation of the State of Georgia, having its principal office in Lawrenceville, State of Georgia, United States of America, and its successors, assigns, and legal representatives, the entire right, title and interest for the United States of America in and to certain inventions relating to improvements in THE TRANSPORT OF MODULATION SYMBOLS IN A COMMUNICATIONS SYSTEM (Case No. A-7955) described, illustrated and claimed in an application for Letters Patent of the United States of America executed by us on the dates indicated by our signatures below, together with the entire right, title and interest in and to said application, and in and to Letters Patent which may be issued upon said application, and upon any division, extension, continuation or reissue thereof.

We hereby also sell, assign and transfer unto the said Scientific-Atlanta, Inc., the entire right, title and interest in and to said invention and in and to applications for Letters Patent therefor in all countries foreign to the United States of America, including all rights under any and all international conventions and treaties in respect of said invention and said applications for Letters Patent in foreign countries, and we further authorize the said Scientific-Atlanta, Inc., to apply for Letters Patent in foreign countries directly in its own name, and to claim priority of the filing date of the said application for Letters Patent of the United States of America under the provisions of any and all international conventions and treaties.

We hereby authorize and request the Commissioner of Patents of the United States of America to issue Letters Patent upon the aforesaid application, division, extension, continuation or reissue, to the said Scientific-Atlanta, Inc., for the sole use and behalf of said Scientific-Atlanta, Inc., its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted, the same as they would have been held and enjoyed by me had this assignment not been made, and we hereby authorize and request the equivalent authorities in foreign countries to issue the patents of their respective countries to the said Scientific-Atlanta, Inc.

We agree that, when requested, we will, without charge to said Scientific-Atlanta, Inc., but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in said Scientific-Atlanta, Inc., its successors, assigns and legal representatives or nominees.

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We covenant with said Scientific-Atlanta, Inc., its successors, assigns and legal representatives, that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license or other encumbrance. NNELLA, JR. STATE OF GEORGIA COUNTY OF GWINNETT I, MARYELLEN LICKER, a Notary Public in and for the County and State aforesaid, do hereby certify that the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered said instrument as his free and voluntary act and deed for the uses and purposes therein set forth. Given under my hand and notarial seal this 29TH day of JANUARY , 2004. 1-29-04 DATE Jany S. Mc Kimen STATE OF GEORGIA COUNTY OF GWINNETT I, MARYELLEN LICKER, a Notary Public in and for the County and State aforesaid, do hereby certify that the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered said instrument as his free and voluntary act and deed for the uses and purposes therein set forth. Given under my hand and notarial seal this <u>2974</u> day of <u>TANUARY</u>, 2004.

Notary Public Signature 2 Docket No.: A-7955

> PATENT REEL: 014954 FRAME: 0794

1/29/04 STATE OF GEORGIA COUNTY OF GWINNETT I, <u>MARYELLEN LICKER</u>, a Notary Public in and for the County and State aforesaid, do hereby certify that the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered said instrument as his free and voluntary act and deed for the uses and purposes therein set forth. Given under my hand and notarial seal this <u>297H</u> day of <u>TANUARY</u>, 2004.

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RECORDED: 01/30/2004

PATENT REEL: 014954 FRAME: 0795